



State of Utah
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

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June 30, 1997

Gary Applegate
Indian Queen Marble, L.L.C.
1275 North Main
P.O. Box 95
Tooele, Utah 84074

Re: Review of Notice of Intention to Commence Large Mining Operations, Indian Queen Marble LLC Company, Indian Queen Marble Mine, M/001/019, Beaver County, Utah

Dear Mr. Applegate:

The Division has completed a review of your Notice of Intention to Commence Large Mining Operations for the Indian Queen Mine located in Beaver County, Utah. The initial plan was received October 16, 1996, and a second submittal of additional information was received on March 26, 1997. After reviewing the information, the Division has attached the following comments which will need to be addressed before tentative approval may be granted. The comments are listed under the applicable Minerals Rule heading. Please format your response in a similar fashion.

The Division will suspend further review of the mine NOI until your response to this letter is received. We apologize for the length of time it has taken to review your plan, but this is directly attributed to our current permitting loads. It will become apparent to you, after reading our review document, that the information requested is related to the Division not being able to calculate an accurate bond amount based on the information presented in your plan. If you have any questions regarding this review, please contact me, Tony Gallegos, Lynn Kunzler, or Tom Munson of the Minerals Staff. If you wish to arrange a meeting to sit down and discuss this review, please contact us at your earliest convenience. Thank you for your cooperation in completing this permitting action.

Sincerely,

D. Wayne Hedberg
Permit Supervisor
Minerals Regulatory Program

REVIEW OF NOTICE OF INTENTION TO COMMENCE LARGE MINING OPERATIONS

Indian Queen Marble L.L.C.

Indian Queen Marble Mine

June 30, 1997

M/001/019

R647-4-105 - Maps, Drawings & Photographs

105.1 and 105.2 Topographic base map, boundaries, pre-act disturbance - Surface facilities map

Please provide a version of the surface facility map which includes clearly defined borders around disturbances which were in existence *prior* to the beginning of small mine operations. Please provide a version of the surface facilities map which includes a clearly defined border around the *current* mining disturbances created under the small mine notice. Please provide another version of the surface facilities map which includes a clearly defined border around the *proposed* large mine disturbed area. (AAG)

105.3 Drawings or Cross Sections (slopes, roads, pads, etc.)

Please provide a version of the surface facilities map which shows the various reclamation treatments for the different disturbed areas of the mine site. Use color highlighting or cross hatching to delineate areas which will receive different reclamation treatments or combinations of different treatments. This reclamation treatments map should agree with the written details describing the reclamation of the mine site. For example, since the entire area is proposed to be drill seeded, final slopes need to be such that a drill seeder can be operated on them. The reclamation cost estimate would be based on areas measured off this map and the specific reclamation treatments. (AAG)

R647-4-106 - Operation Plan

106.2 Type of operations conducted, mining method, processing etc.

Please provide more details of the actual mining process to be used. Include a description of the typical mining sequence such as size of blast round, frequency of blasting, width of active mining benches, typical highwall slopes between benches, vertical height of highwalls, sizes of crushed materials and reject materials, etc. (AAG)

106.3 Estimated acreages disturbed, reclaimed, annually

Please clarify the details of the concurrent reclamation to be performed by providing a schedule which describes the acreage to be reclaimed and the year of reclamation work. This is needed to arrive at the maximum disturbed area for the life of the operations or during the first five years of mining. Please be advised that Division rules do not consider an area to be fully reclaimed and released until revegetation on the reclaimed area meets the required revegetation success standard. The time frame for reaching this success standard (70% premining vegetation cover) is typically three years. (AAG)

106.4 Nature of materials mined, waste and estimated tonnages

Please provide a mineralogical description of the waste rock or overburden. Please describe the typical size fractions of the waste rock or overburden materials to be placed on the dumps.

(AAG)

106.9 Location & size of ore, waste, tailings, ponds

Please describe the typical amount (tonnage or volume) of ore to be stockpiled during active operations. (AAG)

R647-4-107 - Operation Practices

107.1 Public safety & welfare

107.1.11 Closing or guarding shafts & tunnels

Please describe the specific engineered closure measures to be taken at each shaft or tunnel which would be a hazard to the public, such as metal grates, block walls, chain link fencing, etc. (AAG)

107.1.15 Constructing berms, fences, etc. above highwalls

On a version of the surface facilities map, please indicate sections of the quarry highwalls which will require safety berms or fencing during operations. If there are no areas that will be dangerous or pose a public safety hazard, please provide appropriate justification for not constructing such safety measures. (AAG)

107.2 Drainages to minimize damage

The operator needs to provide a final drainage cross section which allows for a free flowing drainage adjacent to the pad. In the application, the operator made a commitment to allow natural drainage of all areas in the event of rain or snow. This statement is not well defined. The operator needs to describe how pad expansion will avoid encroachment on (or blockage of) the canyon drainage and commit to a stable drainage configuration following mining. (TM)

R647-4-109 - Impact Assessment

109.4 Slope stability, erosion control, air quality, safety

Please describe the configuration of the highwalls after final reclamation is complete. Provide a written description of the bench widths, vertical spacing between benches and typical angle of slopes between benches. Please provide a typical cross section of this post-mining configuration. (AAG)

R647-4-110 - Reclamation Plan

110.2 Roads, highwalls, slopes, drainages, pits, etc., reclaimed

Please describe any safety measures, such as berms or boulder barricades, which will remain in place after reclamation is complete. Please provide a written description and cross section of the overall slope angle of the highwall after reclamation is complete. (AAG)

110.3 Description of facilities to be left (post mining use)

Please describe the facilities or features which will remain after final reclamation, such as roads, drainage diversions, impoundments, etc. Please provide a version of the surface facilities map which specifically includes the locations of these facilities which will remain, so they can be clearly delineated. (AAG)

R647-4-112 - Variance

This submission contained no variance requests. This implies that all of the Operation Practices, Hole Plugging Requirements and Reclamation Practices as described in the Minerals Rules will be adhered to. If this assumption is inaccurate, please provide the appropriate variance requests as described under section R647-4-112. (TM)

R647-4-113 - Surety

Using the reclamation treatments map as requested in this document, please provide a third party cost estimate for performing the reclamation tasks described in the reclamation plan. (AAG)